

EXHIBIT 13

Exhibit 13: U.S. Patent No. 7,936,738

Claim 1	Identification																						
<p>1[pre]. A method of storing context information in an outgoing message sent from a node including a computing device using a protocol stack having at least one layer, comprising:</p>	<p>To the extent the preamble is limiting, SAP Business Network Asset Collaboration stores context information in an outgoing message sent from a node including a computing device using a protocol stack having at least one layer. For example, <i>see</i>:</p> <div data-bbox="576 442 1664 616" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center; font-size: 1.5em; margin: 0;">SAP Business Network Asset Collaboration</h2> <p style="text-align: center; font-size: 0.9em; margin: 0;">Drive resiliency and transparency through collaborative asset definition and maintenance.</p> </div> <p>Source: https://www.sap.com/products/business-network/asset-collaboration.html.</p> <div data-bbox="576 698 1664 1318" style="border: 1px solid black; padding: 10px;"> <h3 style="text-align: center; font-size: 1.2em; margin: 0;">3.1 Event Payload</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Field</th><th style="text-align: left; padding: 5px;">Remarks</th></tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 5px;">id</td><td style="text-align: left; padding: 5px;">Unique identifier for the event</td></tr> <tr> <td style="text-align: left; padding: 5px;">source</td><td style="text-align: left; padding: 5px;">Object Type, eg: com.sap.dsc.as.equipment</td></tr> <tr> <td style="text-align: left; padding: 5px;">specversion</td><td style="text-align: left; padding: 5px;">1.0-rc1</td></tr> <tr> <td style="text-align: left; padding: 5px;">type</td><td style="text-align: left; padding: 5px;">Action which triggered the event. eg: 'header.create'</td></tr> <tr> <td style="text-align: left; padding: 5px;">datacontenttype</td><td style="text-align: left; padding: 5px;">Content-Type - 'application/json'</td></tr> <tr> <td style="text-align: left; padding: 5px;">time</td><td style="text-align: left; padding: 5px;">The timestamp of the event</td></tr> <tr> <td style="text-align: left; padding: 5px;">objectid</td><td style="text-align: left; padding: 5px;">Object ID</td></tr> <tr> <td style="text-align: left; padding: 5px;">objectownerid</td><td style="text-align: left; padding: 5px;">Object's owner ID</td></tr> <tr> <td style="text-align: left; padding: 5px;">correlationid</td><td style="text-align: left; padding: 5px;">correlation ID for the request which triggered the event</td></tr> <tr> <td style="text-align: left; padding: 5px;">triggeredorgid</td><td style="text-align: left; padding: 5px;">Org ID of the user who triggered the change for the object</td></tr> </tbody> </table> </div> <p>Source: Events in SAP Business Network Asset Collaboration (November 2022) at 11 (available at https://help.sap.com/doc/02a258a27522417ab55afdc307e25335/2211/en-US/Events%20Documentation.pdf).</p>	Field	Remarks	id	Unique identifier for the event	source	Object Type, eg: com.sap.dsc.as.equipment	specversion	1.0-rc1	type	Action which triggered the event. eg: 'header.create'	datacontenttype	Content-Type - 'application/json'	time	The timestamp of the event	objectid	Object ID	objectownerid	Object's owner ID	correlationid	correlation ID for the request which triggered the event	triggeredorgid	Org ID of the user who triggered the change for the object
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	<p>External events from SAP Business Network Asset Collaboration enables the customers to receive notifications for supported object types that they have access to when they undergo any changes/updates. This allows the third-party applications hosted by customers on SAP Cloud Platform to consume these events by subscribing to the dedicated Kafka topic. By default, the external events are disabled and have to be enabled separately for each tenant.</p> <p>Communication between Kafka clients and brokers is secured with the TLS protocol. During the TLS handshake Kafka brokers will identify themselves with certificates derived from the SAP CP Kafka Root CA certificate.</p> <p>Currently enabling events for individual object types are not supported. Hence if the events are enabled for the client, messages for all supported object types will be available.</p> <p>Source: Events in SAP Business Network Asset Collaboration (November 2022) at 5, 9, 11 (available at https://help.sap.com/doc/02a258a27522417ab55afdc307e25335/2211/en-US/Events%20Documentation.pdf).</p> <p>Kafka uses a binary protocol over TCP. The protocol defines all APIs as request response message pairs. All messages are size delimited and are made up of the following primitive types.</p> <p>The client initiates a socket connection and then writes a sequence of request messages and reads back the corresponding response message. No handshake is required on connection or disconnection. TCP is happier if you maintain persistent connections used for many requests to amortize the cost of the TCP handshake, but beyond this penalty connecting is pretty cheap.</p> <p>The client will likely need to maintain a connection to multiple brokers, as data is partitioned and the clients will need to talk to the server that has their data. However it should not generally be necessary to maintain multiple connections to a single broker from a single client instance (i.e. connection pooling).</p> <p>Source: https://kafka.apache.org/protocol</p>

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	<p>Kafka is a distributed system consisting of servers and clients that communicate via a high-performance TCP network protocol. It can be deployed on bare-metal hardware, virtual machines, and containers in on-premise as well as cloud environments.</p> <p>Servers: Kafka is run as a cluster of one or more servers that can span multiple datacenters or cloud regions. Some of these servers form the storage layer, called the brokers. Other servers run Kafka Connect to continuously import and export data as event streams to integrate Kafka with your existing systems such as relational databases as well as other Kafka clusters. To let you implement mission-critical use cases, a Kafka cluster is highly scalable and fault-tolerant: if any of its servers fails, the other servers will take over their work to ensure continuous operations without any data loss.</p> <p>Clients: They allow you to write distributed applications and microservices that read, write, and process streams of events in parallel, at scale, and in a fault-tolerant manner even in the case of network problems or machine failures. Kafka ships with some such clients included, which are augmented by dozens of clients provided by the Kafka community: clients are available for Java and Scala including the higher-level Kafka Streams library, for Go, Python, C/C++, and many other programming languages as well as REST APIs.</p>
1[a]. providing, by the computing device, the outgoing message from an application to a layer of the protocol stack, the outgoing message is	SAP Business Network Asset Collaboration provides, by the computing device, the outgoing message from an application to a layer of the protocol stack, the outgoing message is destined for an application on a destination node. For example, <i>see</i> :

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	<p>Source: https://kafka.apache.org/protocol</p> <p>Communication between Kafka clients and brokers is secured with the TLS protocol. During the TLS handshake Kafka brokers will identify themselves with certificates derived from the SAP CP Kafka Root CA certificate.</p> <p>Source: Events in SAP Business Network Asset Collaboration (November 2022) at 9 (available at https://help.sap.com/doc/02a258a27522417ab55afdc307e25335/2211/en-US/Events%20Documentation.pdf).</p>

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<p>1[b]. selectively indicating to the layer of the protocol stack that context information is to be obtained for that layer;</p>	<p>SAP Business Network Asset Collaboration selectively indicates to the layer of the protocol stack that context information is to be obtained for that layer. For example, <i>see</i>:</p> <div data-bbox="576 347 1854 997" style="border: 1px solid black; padding: 10px;"> <p><u>The Messages</u></p> <p>This section gives details on each of the individual API Messages, their usage, their binary format, and the meaning of their fields.</p> <p>Headers:</p> <pre>Request Header v0 => request_api_key request_api_version correlation_id request_api_key => INT16 request_api_version => INT16 correlation_id => INT32</pre> <table border="1" data-bbox="587 784 1843 988"> <thead> <tr> <th data-bbox="587 784 1220 833">FIELD</th><th data-bbox="1220 784 1843 833">DESCRIPTION</th></tr> </thead> <tbody> <tr> <td data-bbox="587 833 1220 882">request_api_key</td><td data-bbox="1220 833 1843 882">The API key of this request.</td></tr> <tr> <td data-bbox="587 882 1220 931">request_api_version</td><td data-bbox="1220 882 1843 931">The API version of this request.</td></tr> <tr> <td data-bbox="587 931 1220 988">correlation_id</td><td data-bbox="1220 931 1843 988">The correlation ID of this request.</td></tr> </tbody> </table> </div>	FIELD	DESCRIPTION	request_api_key	The API key of this request.	request_api_version	The API version of this request.	correlation_id	The correlation ID of this request.
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	<p>Example:</p> <pre> { "id": "1eccfb1-057f-4aa6-8ba4-ec63deba7ae1", "source": "com.sap.dsc.ac.equipment", "specversion": "1.0-rc1", "type": "header.update", </pre> <p>Source: Events in SAP Business Network Asset Collaboration (November 2022) at 11-12 (available at https://help.sap.com/doc/02a258a27522417ab55afdc307e25335/2211/en-US/Events%20Documentation.pdf).</p> <div style="border: 1px solid black; padding: 10px;"> <p>Kafka uses a binary protocol over TCP. The protocol defines all APIs as request response message pairs. All messages are size delimited and are made up of the following primitive types.</p> <p>The client initiates a socket connection and then writes a sequence of request messages and reads back the corresponding response message. No handshake is required on connection or disconnection. TCP is happier if you maintain persistent connections used for many requests to amortize the cost of the TCP handshake, but beyond this penalty connecting is pretty cheap.</p> <p>The client will likely need to maintain a connection to multiple brokers, as data is partitioned and the clients will need to talk to the server that has their data. However it should not generally be necessary to maintain multiple connections to a single broker from a single client instance (i.e. connection pooling).</p> </div> <p>Source: https://kafka.apache.org/protocol</p>

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	<pre>Request Header v1 => request_api_key request_api_version correlation_id client_id request_api_key => INT16 request_api_version => INT16 correlation_id => INT32 client_id => NULLABLE_STRING</pre> <table border="1" data-bbox="593 496 1769 744"> <thead> <tr> <th data-bbox="593 496 1199 548">FIELD</th><th data-bbox="1199 496 1769 548">DESCRIPTION</th></tr> </thead> <tbody> <tr> <td data-bbox="593 548 1199 600">request_api_key</td><td data-bbox="1199 548 1769 600">The API key of this request.</td></tr> <tr> <td data-bbox="593 600 1199 651">request_api_version</td><td data-bbox="1199 600 1769 651">The API version of this request.</td></tr> <tr> <td data-bbox="593 651 1199 703">correlation_id</td><td data-bbox="1199 651 1769 703">The correlation ID of this request.</td></tr> <tr> <td data-bbox="593 703 1199 744">client_id</td><td data-bbox="1199 703 1769 744">The client ID string.</td></tr> </tbody> </table>	FIELD	DESCRIPTION	request_api_key	The API key of this request.	request_api_version	The API version of this request.	correlation_id	The correlation ID of this request.	client_id	The client ID string.		
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	<pre>Request Header v2 => request_api_key request_api_version correlation_id client_id TAG_BUFFER request_api_key => INT16 request_api_version => INT16 correlation_id => INT32 client_id => NULLABLE_STRING</pre> <table border="1" data-bbox="593 1034 1769 1348"> <thead> <tr> <th data-bbox="593 1034 1199 1086">FIELD</th><th data-bbox="1199 1034 1769 1086">DESCRIPTION</th></tr> </thead> <tbody> <tr> <td data-bbox="593 1086 1199 1139">request_api_key</td><td data-bbox="1199 1086 1769 1139">The API key of this request.</td></tr> <tr> <td data-bbox="593 1139 1199 1189">request_api_version</td><td data-bbox="1199 1139 1769 1189">The API version of this request.</td></tr> <tr> <td data-bbox="593 1189 1199 1241">correlation_id</td><td data-bbox="1199 1189 1769 1241">The correlation ID of this request.</td></tr> <tr> <td data-bbox="593 1241 1199 1282">client_id</td><td data-bbox="1199 1241 1769 1282">The client ID string.</td></tr> <tr> <td data-bbox="593 1282 1199 1348">_tagged_fields</td><td data-bbox="1199 1282 1769 1348">The tagged fields</td></tr> </tbody> </table> <p data-bbox="572 1348 1115 1383">Source: https://kafka.apache.org/protocol</p>	FIELD	DESCRIPTION	request_api_key	The API key of this request.	request_api_version	The API version of this request.	correlation_id	The correlation ID of this request.	client_id	The client ID string.	_tagged_fields	The tagged fields
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	<p>Response Header v0 => correlation_id correlation_id => INT32</p> <table border="1"><thead><tr><th data-bbox="576 442 1241 507">FIELD</th><th data-bbox="1241 442 1909 507">DESCRIPTION</th></tr></thead><tbody><tr><td data-bbox="576 507 1241 556">correlation_id</td><td data-bbox="1241 507 1909 556">The correlation ID of this response.</td></tr></tbody></table> <p>Response Header v1 => correlation_id TAG_BUFFER correlation_id => INT32</p> <table border="1"><thead><tr><th data-bbox="576 744 1241 809">FIELD</th><th data-bbox="1241 744 1909 809">DESCRIPTION</th></tr></thead><tbody><tr><td data-bbox="576 809 1241 858">correlation_id</td><td data-bbox="1241 809 1909 858">The correlation ID of this response.</td></tr><tr><td data-bbox="576 858 1241 907">_tagged_fields</td><td data-bbox="1241 858 1909 907">The tagged fields</td></tr></tbody></table>	FIELD	DESCRIPTION	correlation_id	The correlation ID of this response.	FIELD	DESCRIPTION	correlation_id	The correlation ID of this response.	_tagged_fields	The tagged fields
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